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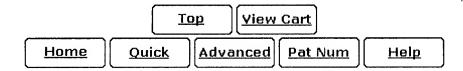**(neugent AND (classifier OR neural)): 4 patents.**
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Terms used: **neugent** and **classifier** or **neural**   Found **1,861** of 205,978

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1   IDS, content filtering, Java, etc.: A network intrusion detection system based on the artificial neural networks

Wang Jing-xin, Wang Zhi-ying, Dai Kui

November 2004 **Proceedings of the 3rd international conference on Information security InfoSecu '04**

Publisher: ACM Press

Full text available: 📄 pdf(371.41 KB)   Additional Information: full citation, abstract, references, index terms

To address the problem of high false alarm rate confronted by the traditional intrusion detection systems, this paper presents a new method of applying the artificial neural networks to the network intrusion detection system. We designed and implemented a network intrusion detection system based on the artificial neural networks, and then several experiments have been carried out. For the known intrusions, the false alarm rate is less than 3 percent, and, for the unknown intrusions, the false al ...

Keywords: BP classifier, artificial neural networks, false negative rate, false positive rate, intrusion detection system

2   Minimax Regret Classifier for Imprecise Class Distributions

Rocío Alaiz-Rodríguez, Alicia Guerrero-Curieses, Jesús Cid-Sueiro

May 2007 **The Journal of Machine Learning Research**, Volume 8

Publisher: MIT Press

Full text available: 📄 pdf(364.38 KB)   Additional Information: full citation, abstract

The design of a minimum risk classifier based on data usually stems from the stationarity assumption that the conditions during training and test are the same: the misclassification costs assumed during training must be in agreement with real costs, and the same statistical process must have generated both training and test data. Unfortunately, in real world applications, these assumptions may not hold. This paper deals with the problem of training a classifier when prior probabilities cannot ...

3   A comparison of classifiers and document representations for the routing problem

Hinrich Schütze, David A. Hull, Jan O. Pedersen

July 1995 **Proceedings of the 18th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '95**

Publisher: ACM Press

Full text available: 📄 pdf(1.16 MB)   Additional Information: full citation, references, citings, index terms

4   A training algorithm for optimal margin classifiers

Bernhard E. Boser, Isabelle M. Guyon, Vladimir N. Vapnik
July 1992 **Proceedings of the fifth annual workshop on Computational learning theory COLT '92**
Publisher: ACM Press

Full text available: 📄 pdf(1.00 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

A training algorithm that maximizes the margin between the training patterns and the decision boundary is presented. The technique is applicable to a wide variety of the classification functions, including Perceptrons, polynomials, and Radial Basis Functions. The effective number of parameters is adjusted automatically to match the complexity of the problem. The solution is expressed as a linear combination of supporting patterns. These are the subset of training patterns that are closest t ...

5   <u>NeurAlign: combining word alignments using neural networks</u>   ▬
Necip Fazil Ayan, Bonnie J. Dorr, Christof Monz
October 2005 **Proceedings of the conference on Human Language Technology and Empirical Methods in Natural Language Processing HLT '05**
Publisher: Association for Computational Linguistics

Full text available: 📄 pdf(153.52 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>

This paper presents a novel approach to combining different word alignments. We view word alignment as a pattern classification problem, where alignment combination is treated as a classifier ensemble, and alignment links are adorned with linguistic features. A neural network model is used to learn word alignments from the individual alignment systems. We show that our alignment combination approach yields a significant 20--34% relative error reduction over the best-known alignment combination t ...

6   <u>Effect of data compression of ERP sign preprocessed by FWT algorithm upon a</u>   ▬
<u>neural network classifier</u>
S. DasGupta, M. Hohenberger, Len Trejo, T. Kaylani
April 1990 **ACM SIGSIM Simulation Digest , Proceedings of the 23rd annual symposium on Simulation ANSS '90**, Volume 20 Issue 4
Publisher: IEEE Press, ACM Press

Full text available: 📄 pdf(648.52 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Earlier research at the Navy Personnel Research and Development Center revealed that measures of the brain response to sensory stimuli, known as Event Related Potentials (ERP) may be used to assess unique process-related variance that is dependent upon human performance. For example, it was found that the sensitivity of individual subjects to dynamic color contrast in computer displays can be assessed by visual ERP's. It has also been observed that RMS measures of the P1-N1-P2 complex and t ...

7   <u>A novel method for protein subcellular localization based on boosting and</u>   ▬
<u>probabilistic neural network</u>
Jian Guo, Yuanlie Lin, Zhirong Sun
January 2004 **Proceedings of the second conference on Asia-Pacific bioinformatics - Volume 29 APBC '04**
Publisher: Australian Computer Society, Inc.

Full text available: 📄 pdf(106.36 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Subcellular localization is a key functional characteristic of proteins. An automatic, reliable and efficient prediction system for protein subcellular localization is needed for large-scale genome analysis. In this paper, we introduce a novel subcellular prediction method combining boosting algorithm with probabilistic neural network algorithm. This new approach provided superior prediction performance compared with existing methods. The total prediction accuracy on Reinhardt and Hubbard's data ...

Keywords: amino acid composition, boosting, probabilistic neural network, subcellular localization

8 Voting with a parameterized veto strategy: solving the KDD Cup 2006 problem by means of a classifier committee

Domonkos Tikk, Zsolt T. Kardkovács, Ferenc P. Szidarovszky
December 2006 **ACM SIGKDD Explorations Newsletter**, Volume 8 Issue 2
Publisher: ACM Press
Full text available: pdf(612.54 KB)   Additional Information: full citation, abstract, references

> This paper presents our winner solution for the KDD Cup 2006 problem. It is based on the results of three different supervised learning techniques which are then combined in a classifier committee, and finally a single solution is obtained with a voting procedure. The voting procedure assigns weights to each member of the committee according to their average performance on a ten-fold cross-validation test and it also takes into account the confidence values returned by the three algorithms. T ...

9 Special Issue on learning theory: On the rate of convergence of regularized boosting classifiers

Gilles Blanchard, G´bor Lugosi, Nicolas Vayatis
December 2003 **The Journal of Machine Learning Research**, Volume 4
Publisher: MIT Press
Full text available: pdf(302.45 KB)   Additional Information: full citation, abstract, citings, index terms

> A regularized boosting method is introduced, for which regularization is obtained through a penalization function. It is shown through oracle inequalities that this method is model adaptive. The rate of convergence of the probability of misclassification is investigated. It is shown that for quite a large class of distributions, the probability of error converges to the Bayes risk at a rate faster than $n^{-(V+2)/(4(V+1))}$ where V is the VC dimension of the "ba ...

10 Fast Kernel Classifiers with Online and Active Learning

Antoine Bordes, Seyda Ertekin, Jason Weston, Léon Bottou
December 2005 **The Journal of Machine Learning Research**, Volume 6
Publisher: MIT Press
Full text available: pdf(577.37 KB)   Additional Information: full citation, abstract

> Very high dimensional learning systems become theoretically possible when training examples are abundant. The computing cost then becomes the limiting factor. Any efficient learning algorithm should at least take a brief look at each example. But should all examples be given equal attention?This contribution proposes an empirical answer. We first present an online SVM algorithm based on this premise. LASVM yields competitive misclassification rates after a single pass over the training examples, ...

11 Finknn: a fuzzy interval number k-nearest neighbor classifier for prediction of sugar production from populations of samples

Vassilios Petridis, Vassilis G. Kaburlasos
December 2003 **The Journal of Machine Learning Research**, Volume 4
Publisher: MIT Press
Full text available: pdf(360.76 KB)   Additional Information: full citation, abstract, references, citings, index terms

> This work introduces *FINkNN*, a k-nearest-neighbor classifier operating over the metric lattice of conventional interval-supported convex fuzzy sets. We show that for problems involving populations of measurements, data can be represented by fuzzy interval numbers (FINs) and we present an algorithm for constructing FINs from such populations. We then present a lattice-theoretic metric distance between FINs with arbitrary-shaped membership functions, which forms the basis for *FINkNN*' ...

12 Multimedia data mining: Automatic classification of speech and music using neural networks

M. Kashif Saeed Khan, Wasfi G. Al-Khatib, Muhammad Moinuddin

November 2004 **Proceedings of the 2nd ACM international workshop on Multimedia databases MMDB '04**

Publisher: ACM Press

Full text available: pdf(1.67 MB)   Additional Information: full citation, abstract, references, index terms

The importance of automatic discrimination between speech signals and music signals has evolved as a research topic over recent years. The need to classify audio into categories such as speech or music is an important aspect of many multimedia document retrieval systems. Several approaches have been previously used to discriminate between speech and music data. In this paper, we propose the use of the mean and variance of the discrete wavelet transform in addition to other features that have ...

Keywords: audio features, audio signal processing, content-based indexing, music speech classification, neural networks

13 Posters: Boosting SVM classifiers by ensemble

Yan-Shi Dong, Ke-Song Han

May 2005 **Special interest tracks and posters of the 14th international conference on World Wide Web WWW '05**

Publisher: ACM Press

Full text available: pdf(117.51 KB)   Additional Information: full citation, abstract, references, index terms

By far, the support vector machines (SVM) achieve the state-of-the-art performance for the text classification (TC) tasks. Due to the complexity of the TC problems, it becomes a challenge to systematically develop classifiers with better performance. We try to attack this problem by ensemble methods, which are often used for boosting weak classifiers, such as decision tree, neural networks, etc., and whether they are effective for strong classifiers is not clear.

Keywords: classifier design and evaluation, information filtering, machine learning, neural nets, text processing

14 A constructive algorithm for neural networks that generalize

Alvin Surkan, Colin Campbell

January 1998 **ACM SIGAPL APL Quote Quad , Proceedings of the conference on Share knowledge share success APL '97**, Volume 28 Issue 4

Publisher: ACM Press

Full text available: pdf(650.04 KB)   Additional Information: full citation, abstract, index terms

APL functions were designed to describe a constructive algorithm that synthesizes a neural network while optimizing its ability to generalize. Algorithms are implemented in programs to discover networks of binary weights that assign unfamiliar, high-dimension binary patterns to their most similar classes. Constructive algorithms that create networks are important for the design of classifiers based on array-processors made from fast two-level circuits. APL is an effective tool for the exposition ...

15 Connectionist temporal classification: labelling unsegmented sequence data with recurrent neural networks

Alex Graves, Santiago Fernández, Faustino Gomez, Jürgen Schmidhuber

June 2006 **Proceedings of the 23rd international conference on Machine learning ICML '06**

Publisher: ACM Press

Full text available: pdf(298.26 KB)   Additional Information: full citation, abstract, references, index terms

Many real-world sequence learning tasks require the prediction of sequences of labels from noisy, unsegmented input data. In speech recognition, for example, an acoustic signal is transcribed into words or sub-word units. Recurrent neural networks (RNNs) are powerful sequence learners that would seem well suited to such tasks. However, because they require pre-segmented training data, and post-processing to transform their outputs into

label sequences, their applicability has so far been limited ...

16 A context-aware mobile service discovery and selection mechanism using artificial neural networks

Eyhab Al-Masri, Qusay H. Mahmoud

August 2006 **Proceedings of the 8th international conference on Electronic commerce: The new e-commerce: innovations for conquering current barriers, obstacles and limitations to conducting successful business on the internet ICEC '06**

Publisher: ACM Press

Full text available: pdf(447.28 KB)　　Additional Information: full citation, abstract, references, index terms

In this paper we present SmartCon, a context-aware system for the discovery and selection of mobile services using Artificial Neural Networks (ANNs). The solution we have developed is a mobile agent-enabled system that adaptively and iteratively learns to select the best available mobile service derived from the extraction of a series of features utilizing contextual information such as the Composite Capabilities/Preferences Profile (CC/PP), service-specific, and non-uniform user-specific featur ...

Keywords: CC/PP, artificial neural networks, backpropagation, mobile services, service discovery, service selection, software agents

17 A simple approach to building ensembles of Naive Bayesian classifiers for word sense disambiguation

Ted Pedersen

April 2000 **Proceedings of the first conference on North American chapter of the Association for Computational Linguistics**

Publisher: Morgan Kaufmann Publishers Inc.

Full text available: pdf(677.21 KB)　　Additional Information: full citation, abstract, references, citings

This paper presents a corpus-based approach to word sense disambiguation that builds an ensemble of Naive Bayesian classifiers, each of which is based on lexical features that represent co-occurring words in varying sized windows of context. Despite the simplicity of this approach, empirical results disambiguating the widely studied nouns *line* and *interest* show that such an ensemble achieves accuracy rivaling the best previously published results.

18 A sub Bayesian nearest prototype neural network with fuzzy interpretability for diagnosis problems

Saman Halgamuge, Christoph Grimm, Manfred Glesner

February 1995 **Proceedings of the 1995 ACM symposium on Applied computing SAC '95**

Publisher: ACM Press

Full text available: pdf(508.72 KB)　　Additional Information: full citation, references, citings, index terms

Keywords: Bayes classifier, fuzzy rules, neural networks, rule generation

19 Pattern-based fault diagnosis using neural networks

W. E. Dietz, E. L. Kiech, M. Ali

June 1988 **Proceedings of the 1st international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 1 IEA/AIE '88**
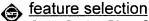
Publisher: ACM Press

Full text available: pdf(1.01 MB)　　Additional Information: full citation, abstract, references, citings, index terms

The detection and diagnosis of faults in real time are active areas of research in

knowledge-based expert systems. Several methods of diagnosis have been applied to a variety of physical systems. Rule-based approaches have been applied successfully to some domains. However, encoding knowledge in rule bases raises many difficult knowledge acquisition issues; in addition, rule-based systems are often too slow to be effectively applied in a real-time environment. More advanced diagnostic syste ...

20 Security: Decision tree classifier for network intrusion detection with GA-based feature selection

Gary Stein, Bing Chen, Annie S. Wu, Kien A. Hua

March 2005 **Proceedings of the 43rd annual Southeast regional conference - Volume 2 ACM-SE 43**

Publisher: ACM Press

Full text available: pdf(1.03 MB)   Additional Information: full citation, abstract, references, index terms

Machine Learning techniques such as Genetic Algorithms and Decision Trees have been applied to the field of intrusion detection for more than a decade. Machine Learning techniques can learn normal and anomalous patterns from training data and generate classifiers that then are used to detect attacks on computer systems. In general, the input data to classifiers is in a high dimension feature space, but not all of features are relevant to the classes to be classified. In this paper, we use a gene ...

Keywords: decision trees, genetic algorithm, intrusion detection

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21 Learning to crawl: Comparing classification schemes   ▭

Gautam Pant, Padmini Srinivasan
October 2005 **ACM Transactions on Information Systems (TOIS)**, Volume 23 Issue 4
Publisher: ACM Press

Full text available: 📄 pdf(940.75 KB)   Additional Information: full citation, abstract, references, index terms, review

Topical crawling is a young and creative area of research that holds the promise of benefiting from several sophisticated data mining techniques. The use of classification algorithms to guide topical crawlers has been sporadically suggested in the literature. No systematic study, however, has been done on their relative merits. Using the lessons learned from our previous crawler evaluation studies, we experiment with multiple versions of different classification schemes. The crawling process is ...

Keywords: Topical crawlers, classifiers, focused crawlers, machine learning

22 Nonlinear Boosting Projections for Ensemble Construction   ▭

Nicolás García-Pedrajas, César García-Osorio, Colin Fyfe
May 2007 **The Journal of Machine Learning Research**, Volume 8
Publisher: MIT Press
Full text available: 📄 pdf(10.56 MB)   Additional Information: full citation, abstract

In this paper we propose a novel approach for ensemble construction based on the use of nonlinear projections to achieve both accuracy and diversity of individual classifiers. The proposed approach combines the philosophy of boosting, putting more effort on difficult instances, with the basis of the random subspace method. Our main contribution is that instead of using a random subspace, we construct a projection taking into account the instances which have posed most difficulties to previous ...

23 Statistical Comparisons of Classifiers over Multiple Data Sets   ▭

Janez Demšar
December 2006 **The Journal of Machine Learning Research**, Volume 7
Publisher: MIT Press
Full text available: 📄 pdf(316.96 KB)   Additional Information: full citation, abstract

While methods for comparing two learning algorithms on a single data set have been scrutinized for quite some time already, the issue of statistical tests for comparisons of more algorithms on multiple data sets, which is even more essential to typical machine learning studies, has been all but ignored. This article reviews the current practice and then theoretically and empirically examines several suitable tests. Based on that, we recommend a set of simple, yet safe and robust non-parametri ...

24 A sequential algorithm for training text classifiers

David D. Lewis, William A. Gale

August 1994 **Proceedings of the 17th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '94**

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(902.60 KB)   Additional Information: full citation, references, citings, index terms

25 Proximal support vector machine classifiers

Glenn Fung, Olvi L. Mangasarian

August 2001 **Proceedings of the seventh ACM SIGKDD international conference on Knowledge discovery and data mining KDD '01**

Publisher: ACM Press

Full text available: pdf(755.57 KB)   Additional Information: full citation, abstract, references, citings, index terms

Instead of a standard support vector machine (SVM) that classifies points by assigning them to one of two disjoint half-spaces, points are classified by assigning them to the closest of two parallel planes (in input or feature space) that are pushed apart as far as possible. This formulation, which can also be interpreted as regularized least squares and considered in the much more general context of regularized networks [8, 9], leads to an extremely fast and simple algorithm for generating a li ...

Keywords: data classification, linear equations, support vector machines

26 Special issue on word sense disambiguation: Disambiguating highly ambiguous words

Geoffrey Towell, Ellen M. Voorhees

March 1998 **Computational Linguistics**, Volume 24 Issue 1

Publisher: MIT Press

Full text available: pdf(1.48 MB) Additional Information: full citation, abstract, references, citings
Publisher Site

A word sense disambiguator that is able to distinguish among the many senses of common words that are found in general-purpose, broad-coverage lexicons would be useful. For example, experiments have shown that, given accurate sense disambiguation, the lexical relations encoded in lexicons such as WordNet can be exploited to improve the effectiveness of information retrieval systems. This paper describes a classifier whose accuracy may be sufficient for such a purpose. The classifier combines the ...

27 Learning classifier systems and other genetics-based machine learning: Kernel-based, ellipsoidal conditions in the real-valued XCS classifier system

Martin V. Butz

June 2005 **Proceedings of the 2005 conference on Genetic and evolutionary computation GECCO '05**

Publisher: ACM Press

Full text available: pdf(1.66 MB)   Additional Information: full citation, abstract, references, citings, index terms

Many learning classifier system (LCS) implementations are restricted to the binary problem realm. Recently, the XCS classifier system was enhanced to be able to handle real-valued inputs among others. In the real-valued enhancement, XCSF applies as a function approximation system that partitions the input space in hyperrectangular subspaces specified in the classifiers. This paper changes the classifier conditions to hyperspheres and hyperellipsoids and investigates the consequent performance im ...

Keywords: GAs, XCS, function approximation, learning classifier systems, piece-wise

linear approximation, radial bases

28 Adopting Wildlife Experiments for Web Evolution Estimations: The Role of an AI Web Page Classifier
Ioannis Anagnostopoulos, Photis Stavropoulos
December 2006 **Proceedings of the 2006 IEEE/WIC/ACM International Conference on Web Intelligence WI '06**
Publisher: IEEE Computer Society
Full text available: pdf(200.03 KB)   Additional Information: full citation, abstract

This paper proposes a statistical approach for estimating the evolution of web pages in directories. The proposal is based on the capture-recapture method used in wildlife biological studies in an animal, bird or fish populations, and it is modified according to the necessary assumptions and amendments for applying the experiments in a search engine directory. During these experiments, web pages are considered as animals and the specific types of web pages as particular species of animals whose ...

29 Learning Classifier systems and other genetics-based machine learning: papers: Classifier prediction based on tile coding
Pier Luca Lanzi, Daniele Loiacono, Stewart W. Wilson, David E. Goldberg
July 2006 **Proceedings of the 8th annual conference on Genetic and evolutionary computation GECCO '06**
Publisher: ACM Press
Full text available: pdf(489.82 KB)   Additional Information: full citation, abstract, references, index terms

This paper introduces XCSF extended with tile coding prediction: each classifier implements a tile coding approximator; the genetic algorithm is used to adapt both classifier conditions (i.e., to partition the problem) and the parameters of each approximator; thus XCSF evolves an ensemble of tile coding approximators instead of the typical monolithic approximator used in reinforcement learning. The paper reports a comparison between (i) XCSF with tile coding prediction and (ii) plain tile coding ...

Keywords: LCS, RL, XCS, tile coding

30 Poster papers: Evaluating classifiers' performance in a constrained environment
Anna Olecka
July 2002 **Proceedings of the eighth ACM SIGKDD international conference on Knowledge discovery and data mining KDD '02**
Publisher: ACM Press
Full text available: pdf(653.86 KB)   Additional Information: full citation, abstract, references, index terms

In this paper, we focus on methodology of finding a classifier with a minimal cost in presence of additional performance constraints. ROCCH analysis, where accuracy and cost are intertwined in the solution space, was a revolutionary tool for two-class problems. We propose an alternative formulation, as an optimization problem, commonly used in Operations Research. This approach extends the ROCCH analysis to allow for locating optimal solutions while outside constraints are present. Similarly to ...

31 Multiclass Cancer Classification Using Semisupervised Ellipsoid ARTMAP and Particle Swarm Optimization with Gene Expression Data
Rui Xu, Georgios C. Anagnostopoulos, Donald C. Wunsch
January 2007 **IEEE/ACM Transactions on Computational Biology and Bioinformatics (TCBB)**, Volume 4 Issue 1
Publisher: IEEE Computer Society Press
Full text available: pdf(3.70 MB)   Additional Information: full citation, abstract, references, index terms

It is crucial for cancer diagnosis and treatment to accurately identify the site of origin of a tumor. With the emergence and rapid advancement of DNA microarray technologies, constructing gene expression profiles for different cancer types has already become a

promising means for cancer classification. In addition to research on binary classification such as normal versus tumor samples, which attracts numerous efforts from a variety of disciplines, the discrimination of multiple tumor types is ...

Keywords: Cancer classification, gene expression profile, semisupervised ellipsoid ARTMAP, particle swarm optimization.

32 <u>Neural networks for molecular sequence database management</u>

Cathy H. Wu, Jerry W. McLarty, George M. Whitson
April 1991 **Proceedings of the 19th annual conference on Computer Science CSC '91**
Publisher: ACM Press
Full text available: pdf(686.49 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>

33 <u>Fuzzy rule extraction from GIS data with a neural fuzzy system for decision making</u>

Ding Zheng, Wolfgang Kainz
November 1999 **Proceedings of the 7th ACM international symposium on Advances in geographic information systems GIS '99**
Publisher: ACM Press
Full text available: pdf(1.07 MB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>index terms</u>

Keywords: GIS, decision-making, fuzzy rule inference, neural network

34 <u>Method combination for document filtering</u>

David A. Hull, Jan O. Pedersen, Hinrich Schütze
August 1996 **Proceedings of the 19th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '96**
Publisher: ACM Press
Full text available: pdf(1.00 MB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

35 <u>Segmentation of merged characters by neural networks and shortest-path</u>

Jin Wang, Jack Jean
March 1993 **Proceedings of the 1993 ACM/SIGAPP symposium on Applied computing: states of the art and practice SAC '93**
Publisher: ACM Press
Full text available: pdf(833.10 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

36 <u>Hierarchical neural networks for text categorization (poster abstract)</u>

Miguel E. Ruiz, Padmini Srinivasan
August 1999 **Proceedings of the 22nd annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '99**
Publisher: ACM Press
Full text available: pdf(262.34 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

37 <u>Tree-structured neural decoding</u>

Christian d'Avignon, Donald Geman
December 2003 **The Journal of Machine Learning Research**, Volume 4
Publisher: MIT Press
Full text available: pdf(218.59 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

We propose adaptive testing as a general mechanism for extracting information about stimuli from spike trains. Each test or question corresponds to choosing a neuron and a time interval and checking for a given number of spikes. No assumptions are made about the distribution of spikes or any other aspect of neural encoding. The chosen questions are those which most reduce the uncertainty about the stimulus, as measured by entropy and estimated from stimulus-response data. Our experiments are bas ...

38 Application of neural networks to biological data mining: a case study in protein sequence classification

Jason T. L. Wang, Qicheng Ma, Dennis Shasha, Cathy H. Wu

August 2000 **Proceedings of the sixth ACM SIGKDD international conference on Knowledge discovery and data mining KDD '00**

Publisher: ACM Press

Full text available: pdf(181.04 KB)   Additional Information: full citation, references, citings, index terms

Keywords: bioinformatics, biological data mining, feature extraction from protein data, machine learning, neural networks, sequence alignment

39 A maximal figure-of-merit (MFoM)-learning approach to robust classifier design for text categorization

Sheng Gao, Wen Wu, Chin-Hui Lee, Tat-Seng Chua

April 2006 **ACM Transactions on Information Systems (TOIS)**, Volume 24 Issue 2

Publisher: ACM Press

Full text available: pdf(959.27 KB)   Additional Information: full citation, abstract, references, index terms

We propose a maximal figure-of-merit (MFoM)-learning approach for robust classifier design, which directly optimizes performance metrics of interest for different target classifiers. The proposed approach, embedding the decision functions of classifiers and performance metrics into an overall training objective, learns the parameters of classifiers in a decision-feedback manner to effectively take into account both positive and negative training samples, thereby reducing the required size of pos ...

Keywords: Text categorization, decision tree, generalized probabilistic descent method, information retrieval, latent semantic indexing, maximal figure-of-merit

40 In-network processing: Capturing high-frequency phenomena using a bandwidth-limited sensor network

Ben Greenstein, Christopher Mar, Alex Pesterev, Shahin Farshchi, Eddie Kohler, Jack Judy, Deborah Estrin

October 2006 **Proceedings of the 4th international conference on Embedded networked sensor systems SenSys '06**

Publisher: ACM Press

Full text available: pdf(853.96 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Small-form-factor, low-power wireless sensors-motes-are convenient to deploy, but lack the bandwidth to capture and transmit raw high-frequency data, such as human voices or neural signals, in real time. Local filtering can help, but we show that the right filter settings depend on changing ambient conditions and network effects such as congestion, which makes them dynamic and unpredictable. Mote collection systems for high-frequency data must support iteratively-tuned, deployment-specific filte ...

Keywords: acoustics, health monitoring, motes, sensor networks, signal processing frameworks

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41 Data mining of multidimensional remotely sensed images   ▭

Robert F. Cromp, William J. Campbell
December 1993 **Proceedings of the second international conference on Information and knowledge management CIKM '93**
Publisher: ACM Press
Full text available: 📄 pdf(1.39 MB)   Additional Information: full citation, references, citings, index terms

42 Identification of patients with congestive heart failure using a binary classifier: a case   ▭
study

Serguei V. Pakhomov, James Buntrock, Christopher G. Chute
July 2003 **Proceedings of the ACL 2003 workshop on Natural language processing in biomedicine - Volume 13**
Publisher: Association for Computational Linguistics
Full text available: 📄 pdf(97.06 KB)   Additional Information: full citation, abstract, references

This paper addresses a very specific problem that happens to be common in health science research. We present a machine learning based method for identifying patients diagnosed with congestive heart failure and other related conditions by automatically classifying clinical notes. This method relies on a Perceptron neural network classifier trained on comparable amounts of positive and negative samples of clinical notes previously categorized by human experts. The documents are represented as fea ...

43 Statistical language modeling: Corpus-based statistical sense resolution   ▭

Claudia Leacock, Geoffrey Towell, Ellen Voorhees
March 1993 **Proceedings of the workshop on Human Language Technology HLT '93**
Publisher: Association for Computational Linguistics
Full text available: 📄 pdf(526.55 KB)   Additional Information: full citation, abstract, references, citings

The three corpus-based statistical sense resolution methods studied here attempt to infer the correct sense of a polysemous word by using knowledge about patterns of word cooccurrences. The techniques were based on Bayesian decision theory, neural, networks, and content vectors as used in information retrieval. To understand these methods better, we posed a very specific problem: given a set of contexts, each containing the noun *line* in a known sense, construct a classifier that selects t ...

44 Utility based data mining for time series analysis: cost-sensitive learning for neural   ▭
network predictors

Sven F. Crone, Stefan Lessmann, Robert Stahlbock
August 2005 **Proceedings of the 1st international workshop on Utility-based data mining UBDM '05**

Publisher: ACM Press
Full text available: pdf(442.57 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

In corporate data mining applications, cost-sensitive learning is firmly established for predictive classification algorithms. Conversely, data mining methods for regression and time series analysis generally disregard economic utility and apply simple accuracy measures. Methods from statistics and computational intelligence alike minimise a symmetric statistical error, such as the sum of squared errors, to model ordinary least squares predictors. However, applications in business elucidate that ...

Keywords: asymmetric costs, cost-sensitive learning, data mining, neural networks, time series analysis

45 Posters: Image classification using hybrid neural networks
Chih-Fong Tsai, Ken McGarry, John Tait
July 2003 **Proceedings of the 26th annual international ACM SIGIR conference on Research and development in informaion retrieval SIGIR '03**
Publisher: ACM Press

Full text available: pdf(199.31 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Use of semantic content is one of the major issues which needs to be addressed for improving image retrieval effectiveness. We present a new approach to classify images based on the combination of image processing techniques and hybrid neural networks. Multiple keywords are assigned to an image to represent its main contents, i.e. semantic content. Images are divided into a number of regions and colour and texture features are extracted. The first classifier, a self-organising map (SOM) clusters ...

Keywords: content-based image retrieval, image indexing/classification, neural networks

46 Fuzzy neural fusion techniques for industrial applications
S. K. Halgamuge, M. Glesner
April 1994 **Proceedings of the 1994 ACM symposium on Applied computing SAC '94**
Publisher: ACM Press
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Keywords: Iris classification, backpropagation, cascade systems, fuzzy step net, fuzzy-neural, rule generation

47 Comparison of a heuristic method with a genetic algorithm for generation of compact rule based classifiers
Saman K. Halgamuge, Alain Brichard, Manfred Glesner
February 1995 **Proceedings of the 1995 ACM symposium on Applied computing SAC '95**
Publisher: ACM Press
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Keywords: classification, fuzzy rules, genetic algorithms, input space segmentation, neural networks, rule generation

48 Intrusion and privacy: Exploiting unlabeled data in ensemble methods
Kristin P. Bennett, Ayhan Demiriz, Richard Maclin
July 2002 **Proceedings of the eighth ACM SIGKDD international conference on**

Knowledge discovery and data mining KDD '02
Publisher: ACM Press

Full text available: pdf(719.46 KB)   Additional Information: full citation, abstract, references, citings, index terms

An adaptive semi-supervised ensemble method, ASSEMBLE, is proposed that constructs classification ensembles based on both labeled and unlabeled data. ASSEMBLE alternates between assigning "pseudo-classes" to the unlabeled data using the existing ensemble and constructing the next base classifier using both the labeled and pseudolabeled data. Mathematically, this intuitive algorithm corresponds to maximizing the classification margin in hypothesis space as measured on both the labeled and unlabel ...

Keywords: boosting, classification, ensemble learning, semi-supervised learning

49 Attribute Clustering for Grouping, Selection, and Classification of Gene Expression Data
Wai-Ho Au, Keith C. C. Chan, Andrew K. C. Wong, Yang Wang
April 2005 **IEEE/ACM Transactions on Computational Biology and Bioinformatics (TCBB)**, Volume 2 Issue 2
Publisher: IEEE Computer Society Press

Full text available: pdf(2.58 MB)   Additional Information: full citation, abstract, references, citings, index terms

This paper presents an attribute clustering method which is able to group genes based on their interdependence so as to mine meaningful patterns from the gene expression data. It can be used for gene grouping, selection, and classification. The partitioning of a relational table into attribute subgroups allows a small number of attributes within or across the groups to be selected for analysis. By clustering attributes, the search dimension of a data mining algorithm is reduced. The reduction of ...

Keywords: Data mining, attribute clustering, gene selection, gene expression classification, microarray analysis.

50 Modeling consensus: classifier combination for word sense disambiguation
Radu Florian, David Yarowsky
July 2002 **Proceedings of the ACL-02 conference on Empirical methods in natural language processing - Volume 10 EMNLP '02**
Publisher: Association for Computational Linguistics

Full text available: pdf(206.10 KB)   Additional Information: full citation, abstract, references, citings

This paper demonstrates the substantial empirical success of classifier combination for the word sense disambiguation task. It investigates more than 10 classifier combination methods, including second order classifier stacking, over 6 major structurally different base classifiers (enhanced Naïve Bayes, cosine, Bayes Ratio, decision lists, transformation-based learning and maximum variance boosted mixture models). The paper also includes in-depth performance analysis sensitive to properties ...

51 Learning Ensembles from Bites: A Scalable and Accurate Approach
Nitesh V. Chawla, Lawrence O. Hall, Kevin W. Bowyer, W. Philip Kegelmeyer
December 2004 **The Journal of Machine Learning Research**, Volume 5
Publisher: MIT Press

Full text available: pdf(3.34 MB)   Additional Information: full citation, abstract, references, index terms

Bagging and boosting are two popular ensemble methods that typically achieve better accuracy than a single classifier. These techniques have limitations on massive data sets, because the size of the data set can be a bottleneck. Voting many classifiers built on small subsets of data ("pasting small votes") is a promising approach for learning from massive data sets, one that can utilize the power of boosting and bagging. We propose a framework for building hundreds or thousands of such classifie ...

52 The Applicability of Recurrent Neural Networks for Biological Sequence Analysis

John Hawkins, Mikael Boden
July 2005 **IEEE/ACM Transactions on Computational Biology and Bioinformatics (TCBB)**, Volume 2 Issue 3
Publisher: IEEE Computer Society Press

Full text available: 🔲 pdf(1.52 MB)   Additional Information: full citation, abstract, references, citings, index terms

Selection of machine learning techniques requires a certain sensitivity to the requirements of the problem. In particular, the problem can be made more tractable by deliberately using algorithms that are biased toward solutions of the requisite kind. In this paper, we argue that recurrent neural networks have a natural bias toward a problem domain of which biological sequence analysis tasks are a subset. We use experiments with synthetic data to illustrate this bias. We then demonstrate that thi ...

Keywords: Index Terms- Machine learning, neural network architecture, recurrent neural network, bias, biological sequence analysis, motif, subcellular localization, pattern recognition, classifier design.

53 Learning classifier systems and other genetics-based machine learning: XCS with computed prediction in multistep environments

Pier Luca Lanzi, Daniele Loiacono, Stewart W. Wilson, David E. Goldberg
June 2005 **Proceedings of the 2005 conference on Genetic and evolutionary computation GECCO '05**
Publisher: ACM Press

Full text available: 🔲 pdf(324.08 KB)   Additional Information: full citation, abstract, references, citings, index terms

XCSF extends the typical concept of learning classifier systems through the introduction of computed classifier prediction. Initial results show that XCSF's computed prediction can be used to evolve accurate piecewise linear approximations of simple functions. In this paper, we take XCSF one step further and apply it to typical reinforcement learning problems involving delayed rewards. In essence, we use XCSF as a method of generalized (linear) reinforcement learning to evolve piecewise linear a ...

Keywords: LCS, RL, XCS, generalization

54 Support Vector Machine Soft Margin Classifiers: Error Analysis

Di-Rong Chen, Qiang Wu, Yiming Ying, Ding-Xuan Zhou
December 2004 **The Journal of Machine Learning Research**, Volume 5
Publisher: MIT Press

Full text available: 🔲 pdf(309.69 KB)   Additional Information: full citation, abstract, references, citings

The purpose of this paper is to provide a PAC error analysis for the q-norm soft margin classifier, a support vector machine classification algorithm. It consists of two parts: regularization error and sample error. While many techniques are available for treating the sample error, much less is known for the regularization error and the corresponding approximation error for reproducing kernel Hilbert spaces. We are mainly concerned about the regularization error. It is estimated for gener ...

55 MetaCost: a general method for making classifiers cost-sensitive

Pedro Domingos
August 1999 **Proceedings of the fifth ACM SIGKDD international conference on Knowledge discovery and data mining KDD '99**
Publisher: ACM Press

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56 Artificial neural network models for texture classification via: the Radon transform

A. D. Kulkarni, P. Byars

March 1992 **Proceedings of the 1992 ACM/SIGAPP symposium on Applied computing: technological challenges of the 1990's SAC '92**

Publisher: ACM Press

Full text available: pdf(448.54 KB)   Additional Information: full citation, references, index terms

57 Data streams: A self-organizing neural network for detecting novelties

Marcelo Keese Albertini, Rodrigo Fernandes de Mello

March 2007 **Proceedings of the 2007 ACM symposium on Applied computing SAC '07**

Publisher: ACM Press

Full text available: pdf(158.30 KB)   Additional Information: full citation, abstract, references, index terms

In order to detect new events, a system must support on-line learning, adapting to pattern dynamic characteristics. Studies of such adaptation have originated the novelty detection area, which aims at identifying unexpected or unknown patterns. These researches have motivated this work to propose the on-line and unsupervised Self-Organizing Novelty Detection (*SONDE*) neural network. In this network, the creation of new neurons points out novelties. Experiments evaluated the influence of ...

Keywords: novelty detection, self-organizing neural networks

58 Performance comparison of neural networks and pattern recognition techniques for classifying ultrasonic transducers

M. S. Obaidat, D. S. Abu-Saymeh

March 1992 **Proceedings of the 1992 ACM/SIGAPP symposium on Applied computing: technological challenges of the 1990's SAC '92**

Publisher: ACM Press

Full text available: pdf(1.03 MB)   Additional Information: full citation, references, index terms

59 Plagiarism detection using feature-based neural networks

Steve Engels, Vivek Lakshmanan, Michelle Craig

March 2007 **ACM SIGCSE Bulletin , Proceedings of the 38th SIGCSE technical symposium on Computer science education SIGCSE '07**, Volume 39 Issue 1

Publisher: ACM Press

Full text available: pdf(277.37 KB)   Additional Information: full citation, abstract, references, index terms

This paper focuses on the use of code features for automatic plagiarism detection. Instead of the text-based analyses employed by current plagiarism detectors, we propose a system that is based on properties of assignments that course instructors use to judge the similarity of two submissions. This system uses neural network techniques to create a feature-based plagiarism detector and to measure the relevance of each feature in the assessment. The system was trained and tested on assignments fro ...

Keywords: cheating, features, introductory computer science, neural networks, plagiarism detection

60 Efficient support vector classifiers for named entity recognition

Hideki Isozaki, Hideto Kazawa

August 2002 **Proceedings of the 19th international conference on Computational linguistics - Volume 1**

Publisher: Association for Computational Linguistics

Full text available: pdf(115.83 KB)   Additional Information: full citation, abstract, references, citings

Named Entity (NE) recognition is a task in which proper nouns and numerical information are extracted from documents and are classified into categories such as person, organization, and date. It is a key technology of Information Extraction and Open-Domain Question Answering. First, we show that an NE recognizer based on Support Vector Machines (SVMs) gives better scores than conventional systems. However, off-the-shelf SVM classifiers are too inefficient for this task. Therefore, we present a m ...

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